

Serial Number: 09/10/518

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JUL 20 1995

TECH CENTER 1600/2900

*[Handwritten signature]*

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

RAW SEQUENCE LISTING                      DATE: 07/16/2000  
 PATENT APPLICATION: US/09/101,518        TIME: 17:20:48

Input Set : A:\Pto.amc  
 Output Set: N:\CRF3\07142000\I101518.raw

**RECEIVED**  
**JUL 20 2000**  
**TECH CENTER 1600/2800**

3 <110> APPLICANT: Li, Yi  
 5 <120> TITLE OF INVENTION: Human G-Protein Chemokine Receptor HSATU68  
 7 <130> FILE REFERENCE: PF218PCT.US  
 9 <140> CURRENT APPLICATION NUMBER: 09/101,518  
 10 <141> CURRENT FILING DATE: 1998-12-21  
 12 <150> PRIOR APPLICATION NUMBER: PCT/US96/00499  
 13 <151> PRIOR FILING DATE: 1996-01-11  
 15 <160> NUMBER OF SEQ ID NOS: 9  
 17 <170> SOFTWARE: PatentIn Ver. 2.1  
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 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Homo sapiens  
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 25 <221> NAME/KEY: CDS  
 26 <222> LOCATION: (173)..(1420)  
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 31 gacgctcttc ttctgtccca ggggtccctg ggccgatggg atcacgcaga agaatgagag 120  
 33 agaagcagcc ttgagaagg gaagtcacta tcccagagcc cagactgagc gg atg gag 178  
 34 Met Glu  
 35 1  
 37 ttg agg aag tac ggc cct gga aga ctg gcg ggg aca gtt ata gga gga 226  
 38 Leu Arg Lys Tyr Gly Pro Gly Arg Leu Ala Gly Thr Val Ile Gly Gly  
 39 5 10 15  
 41 gct gct cag agt aaa tca cag act aaa tca gac tca atc aca aaa gag 274  
 42 Ala Ala Gln Ser Lys Ser Gln Thr Lys Ser Asp Ser Ile Thr Lys Glu  
 43 20 25 30  
 45 ttc ctg cca ggc ctt tac aca gcc cct tcc tcc ccg ttc ccg ccc tca 322  
 46 Phe Leu Pro Gly Leu Tyr Thr Ala Pro Ser Ser Pro Phe Pro Pro Ser  
 47 35 40 45 50  
 49 cag gtg agt gac cac caa gtg cta aat gac gcc gag gtt gcc gcc ctc 370  
 50 Gln Val Ser Asp His Gln Val Leu Asn Asp Ala Glu Val Ala Ala Leu  
 51 55 60 65  
 53 ctg gag aac ttc agc tct tcc tat gac tat gga gaa aac gag agt gac 418  
 54 Leu Glu Asn Phe Ser Ser Ser Tyr Asp Tyr Gly Glu Asn Glu Ser Asp  
 55 70 75 80  
 57 tcg tgc tgt acc tcc ccg ccc tgc cca cag gac ttc agc ctg aac ttc 466  
 58 Ser Cys Cys Thr Ser Pro Pro Cys Pro Gln Asp Phe Ser Leu Asn Phe  
 59 85 90 95  
 61 gac cgg gcc ttc ctg cca gcc ctc aac agc ctc ctc ttt ctg ctg ggg 514  
 62 Asp Arg Ala Phe Leu Pro Ala Leu Asn Ser Leu Leu Phe Leu Leu Gly  
 63 100 105 110  
 65 ctg ctg ggc aac ggc gcg gtg gca gcc gtg ctg ctg agc cgg cgg aca 562  
 66 Leu Leu Gly Asn Gly Ala Val Ala Ala Val Leu Leu Ser Arg Arg Thr  
 67 115 120 125 130  
 69 gcc ctg agc agc acc gac acc ttc ctg ctc cac cta gct gta gca gac 610

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 PATENT APPLICATION: US/09/101,518        TIME: 17:20:48

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 Output Set: N:\CRF3\07142000\I101518.raw

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74 Thr Leu Leu Val Leu Thr Leu Pro Leu Trp Ala Val Asp Ala Ala Val
75                               150                155                160
77 cag tgg gtc ttt ggc tct ggc ctc tgc aaa gtg gca ggt gcc ctc ttc 706
78 Gln Trp Val Phe Gly Ser Gly Leu Cys Lys Val Ala Gly Ala Leu Phe
79                               165                170                175
81 aac atc aac ttc tac gca gga gcc ctc ctg ctg gcc tgc atc agc ttt 754
82 Asn Ile Asn Phe Tyr Ala Gly Ala Leu Leu Leu Ala Cys Ile Ser Phe
83                               180                185                190
85 gac cgc tac ctg aac ata gtt cat gcc acc cag ctc tac cgc cgg ggg 802
86 Asp Arg Tyr Leu Asn Ile Val His Ala Thr Gln Leu Tyr Arg Arg Gly
87 195                               200                205                210
89 ccc ccg gcc cgc gtg acc ctc acc tgc ctg gct gtc tgg ggg ctc tgc 850
90 Pro Pro Ala Arg Val Thr Leu Thr Cys Leu Ala Val Trp Gly Leu Cys
91                               215                220                225
93 ctg ctt ttc gcc ctc cca gac ttc atc ttc ctg tgc gcc cac cac gac 898
94 Leu Leu Phe Ala Leu Pro Asp Phe Ile Phe Leu Ser Ala His His Asp
95                               230                235                240
97 gag cgc ctc aac gcc acc cac tgc caa tac aac ttc cca cag gtg ggc 946
98 Glu Arg Leu Asn Ala Thr His Cys Gln Tyr Asn Phe Pro Gln Val Gly
99                               245                250                255
101 cgc acg gct ctg cgg gtg ctg cag ctg gtg gct ggc ttt ctg ctg ccc 994
102 Arg Thr Ala Leu Arg Val Leu Gln Leu Val Ala Gly Phe Leu Leu Pro
103                               260                265                270
105 ctg ctg gtc atg gcc tac tgc tat gcc cac atc ctg gcc gtg ctg ctg 1042
106 Leu Leu Val Met Ala Tyr Cys Tyr Ala His Ile Leu Ala Val Leu Leu
107 275                               280                285                290
109 gtt tcc agg ggc cag cgg cgc ctg cgg gcc atg cgg ctg gtg gtg gtg 1090
110 Val Ser Arg Gly Gln Arg Arg Leu Arg Ala Met Arg Leu Val Val Val
111                               295                300                305
113 gtc gtg gtg gcc ttt gcc ctc tgc tgg acc ccc tat cac ctg gtg gtg 1138
114 Val Val Val Ala Phe Ala Leu Cys Trp Thr Pro Tyr His Leu Val Val
115                               310                315                320
117 ctg gtg gac atc ctc atg gac ctg ggc gct ttg gcc cgc aac tgt ggc 1186
118 Leu Val Asp Ile Leu Met Asp Leu Gly Ala Leu Ala Arg Asn Cys Gly
119                               325                330                335
121 cga gaa agc agg gta gac gtg gcc aag tgc gtc acc tca ggc ctg ggc 1234
122 Arg Glu Ser Arg Val Asp Val Ala Lys Ser Val Thr Ser Gly Leu Gly
123                               340                345                350
125 tac atg cac tgc tgc ctc aac ccg ctg ctc tat gcc ttt gta ggg gtc 1282
126 Tyr Met His Cys Cys Leu Asn Pro Leu Leu Tyr Ala Phe Val Gly Val
127 355                               360                365                370
129 aag ttc cgg gag cgg atg tgg atg ctg ctc ttg cgc ctg ggc tgc ccc 1330
130 Lys Phe Arg Glu Arg Met Trp Met Leu Leu Leu Arg Leu Gly Cys Pro
131                               375                380                385
133 aac cag aga ggg ctc cag agg cag cca tgc tct tcc cgc cgg gat tca 1378
134 Asn Gln Arg Gly Leu Gln Arg Gln Pro Ser Ser Ser Arg Arg Asp Ser

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## RAW SEQUENCE LISTING

DATE: 07/16/2000

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TIME: 17:20:48

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07142000\I101518.raw

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135          390          395          400
137 tcc tgg tct gag acc tca gag gcc tcc tac tcg gcc ttg tga          1420
138 Ser Trp Ser Glu Thr Ser Glu Ala Ser Tyr Ser Gly Leu
139          405          410          415
141 ggccggaatc cgggctcccc ttctgcccac agtctgaact ccccgcatte caggctcttc 1480
143 cctccctctg ccggctctgg ctctccccc tatectcgct cccgggactc actggcagcc 1540
145 ccagcaccac cagggtctccc gggaagccac cctcccagct ctgaggactg caccattgct 1600
147 gctccttagc tgccaagccc catcctgccg cccgaggtgg ctgcctggag ccccaactgcc 1660
149 cttctcattt ggaaactaaa acttcatctt ccccaagtgc ggggagtaca aggcattggcg 1720
151 tagaggggtgc tgcccattga agccacagcc caggcctcca gctcagcagt gactgtggcc 1780
153 atgggtcccca agacctctat atttgggttt ttatttttat gtctaaaaatc ctgcttaaaa 1840
155 cttttcaata aacaagatcg tcaggaaaaa aaaaaa          1876
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159 <211> LENGTH: 415
160 <212> TYPE: PRT
161 <213> ORGANISM: Homo sapiens
163 <400> SEQUENCE: 2
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165 1 5 10 15
166 Gly Gly Ala Ala Gln Ser Lys Ser Gln Thr Lys Ser Asp Ser Ile Thr
167 20 25 30
168 Lys Glu Phe Leu Pro Gly Leu Tyr Thr Ala Pro Ser Ser Pro Phe Pro
169 35 40 45
170 Pro Ser Gln Val Ser Asp His Gln Val Leu Asn Asp Ala Glu Val Ala
171 50 55 60
172 Ala Leu Leu Glu Asn Phe Ser Ser Ser Tyr Asp Tyr Gly Glu Asn Glu
173 65 70 75 80
174 Ser Asp Ser Cys Cys Thr Ser Pro Pro Cys Pro Gln Asp Phe Ser Leu
175 85 90 95
176 Asn Phe Asp Arg Ala Phe Leu Pro Ala Leu Asn Ser Leu Leu Phe Leu
177 100 105 110
178 Leu Gly Leu Leu Gly Asn Gly Ala Val Ala Ala Val Leu Leu Ser Arg
179 115 120 125
180 Arg Thr Ala Leu Ser Ser Thr Asp Thr Phe Leu Leu His Leu Ala Val
181 130 135 140
182 Ala Asp Thr Leu Leu Val Leu Thr Leu Pro Leu Trp Ala Val Asp Ala
183 145 150 155 160
184 Ala Val Gln Trp Val Phe Gly Ser Gly Leu Cys Lys Val Ala Gly Ala
185 165 170 175
186 Leu Phe Asn Ile Asn Phe Tyr Ala Gly Ala Leu Leu Leu Ala Cys Ile
187 180 185 190
188 Ser Phe Asp Arg Tyr Leu Asn Ile Val His Ala Thr Gln Leu Tyr Arg
189 195 200 205
190 Arg Gly Pro Pro Ala Arg Val Thr Leu Thr Cys Leu Ala Val Trp Gly
191 210 215 220
192 Leu Cys Leu Leu Phe Ala Leu Pro Asp Phe Ile Phe Leu Ser Ala His
193 225 230 235 240
194 His Asp Glu Arg Leu Asn Ala Thr His Cys Gln Tyr Asn Phe Pro Gln
195 245 250 255

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RAW SEQUENCE LISTING                      DATE: 07/16/2000  
 PATENT APPLICATION:    US/09/101,518            TIME: 17:20:48

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 Output Set: N:\CRF3\07142000\I101518.raw

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197                               260                265                270
198 Leu Pro Leu Leu Val Met Ala Tyr Cys Tyr Ala His Ile Leu Ala Val
199                               275                280                285
200 Leu Leu Val Ser Arg Gly Gln Arg Arg Leu Arg Ala Met Arg Leu Val
201                               290                295                300
202 Val Val Val Val Val Ala Phe Ala Leu Cys Trp Thr Pro Tyr His Leu
203 305                               310                315                320
204 Val Val Leu Val Asp Ile Leu Met Asp Leu Gly Ala Leu Ala Arg Asn
205                               325                330                335
206 Cys Gly Arg Glu Ser Arg Val Asp Val Ala Lys Ser Val Thr Ser Gly
207                               340                345                350
208 Leu Gly Tyr Met His Cys Cys Leu Asn Pro Leu Leu Tyr Ala Phe Val
209                               355                360                365
210 Gly Val Lys Phe Arg Glu Arg Met Trp Met Leu Leu Leu Arg Leu Gly
211                               370                375                380
212 Cys Pro Asn Gln Arg Gly Leu Gln Arg Gln Pro Ser Ser Ser Arg Arg
213 385                               390                395                400
214 Asp Ser Ser Trp Ser Glu Thr Ser Glu Ala Ser Tyr Ser Gly Leu
215                               405                410                415
219 <210> SEQ ID NO: 3
220 <211> LENGTH: 29
221 <212> TYPE: DNA
222 <213> ORGANISM: Homo sapiens
224 <400> SEQUENCE: 3
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229 <211> LENGTH: 30
230 <212> TYPE: DNA
231 <213> ORGANISM: Homo sapiens
233 <400> SEQUENCE: 4
234 ggcggatccc gctcacaagc ccgagtagga                               30
237 <210> SEQ ID NO: 5
238 <211> LENGTH: 34
239 <212> TYPE: DNA
240 <213> ORGANISM: Homo sapiens
242 <400> SEQUENCE: 5
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247 <211> LENGTH: 57
248 <212> TYPE: DNA
249 <213> ORGANISM: Homo sapiens
251 <400> SEQUENCE: 6
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256 <211> LENGTH: 31
257 <212> TYPE: DNA
258 <213> ORGANISM: Homo sapiens
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RAW SEQUENCE LISTING                      DATE: 07/16/2000  
 PATENT APPLICATION: US/09/101,518        TIME: 17:20:48

Input Set : A:\Pto.amc  
 Output Set: N:\CRF3\07142000\I101518.raw

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266 <212> TYPE: DNA
267 <213> ORGANISM: Homo sapiens
269 <400> SEQUENCE: 8
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274 <211> LENGTH: 353
275 <212> TYPE: PRT
276 <213> ORGANISM: Homo sapiens
278 <400> SEQUENCE: 9
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280 1 5 10 15
282 Tyr Ser Tyr Ser Ser Thr Leu Pro Pro Phe Leu Leu Asp Ala Ala Pro
283 20 25 30
285 Cys Glu Pro Glu Ser Leu Glu Ile Asn Lys Tyr Phe Val Val Ile Ile
286 35 40 45
288 Tyr Ala Leu Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val Met
289 50 55 60
291 Leu Val Ile Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val Tyr
292 65 70 75 80
294 Leu Leu Asn Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu Pro
295 85 90 95
297 Ile Trp Ala Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe Leu
298 100 105 110
300 Cys Lys Val Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly Ile
301 115 120 125
303 Leu Leu Leu Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val His
304 130 135 140
306 Ala Thr Arg Thr Leu Thr Gln Lys Arg Tyr Leu Val Lys Phe Ile Cys
307 145 150 155 160
309 Leu Ser Ile Trp Gly Leu Ser Leu Leu Leu Ala Leu Pro Val Leu Leu
310 165 170 175
312 Phe Arg Arg Thr Val Tyr Ser Ser Asn Val Ser Pro Ala Cys Tyr Glu
313 180 185 190
315 Asp Met Gly Asn Asn Thr Ala Asn Trp Arg Met Leu Leu Arg Ile Leu
316 195 200 205
318 Pro Gln Ser Phe Gly Phe Ile Val Pro Leu Leu Ile Met Leu Phe Cys
319 210 215 220
321 Tyr Gly Phe Thr Leu Arg Thr Leu Phe Lys Ala His Met Gly Gln Lys
322 225 230 235 240
324 His Arg Ala Met Arg Val Ile Phe Ala Val Val Leu Ile Phe Leu Leu
325 245 250 255
327 Cys Trp Leu Pro Tyr Asn Leu Val Leu Leu Ala Asp Thr Leu Met Arg
328 260 265 270
330 Thr Gln Val Ile Gln Glu Thr Cys Glu Arg Arg Asn His Ile Asp Arg
331 275 280 285
333 Ala Leu Asp Ala Thr Glu Ile Leu Gly Ile Leu His Ser Cys Leu Asn

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VERIFICATION SUMMARY                      DATE: 07/16/2000  
PATENT APPLICATION:    US/09/101,518      TIME: 17:20:49  
  
Input Set : A:\Pto.amc  
Output Set: N:\CRF3\07142000\I101518.raw

1646

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/101,518

DATE: 07/12/2000  
TIME: 08:30:41

Input Set : A:\PF218PCT.txt  
Output Set: N:\CRF3\07122000\I101518.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Li, Yi  
5 <120> TITLE OF INVENTION: Human G-Protein Chemokine Receptor HSATU68  
7 <130> FILE REFERENCE: PF218PCT.US  
9 <140> CURRENT APPLICATION NUMBER: 09/101,518  
10 <141> CURRENT FILING DATE: 1998-12-21  
12 <150> PRIOR APPLICATION NUMBER: PCT/US96/00499  
13 <151> PRIOR FILING DATE: 1996-01-11  
15 <160> NUMBER OF SEQ ID NOS: 9  
17 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

273 <210> SEQ ID NO: 9  
274 <211> LENGTH: 353  
275 <212> TYPE: PRT  
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278 <400> SEQUENCE: 9  
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280 1 5 10 15  
282 Tyr Ser Tyr Ser Ser Thr Leu Pro Pro Phe Leu Leu Asp Ala Ala Pro  
283 20 25 30  
285 Cys Glu Pro Glu Ser Leu Glu Ile Asn Lys Tyr Phe Val Val Ile Ile  
286 35 40 45  
288 Tyr Ala Leu Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val Met  
289 50 55 60  
291 Leu Val Ile Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val Tyr  
292 65 70 75 80  
294 Leu Leu Asn Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu Pro  
295 85 90 95  
297 Ile Trp Ala Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe Leu  
298 100 105 110  
300 Cys Lys Val Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly Ile  
301 115 120 125  
303 Leu Leu Leu Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val His  
304 130 135 140  
306 Ala Thr Arg Thr Leu Thr Gln Lys Arg Tyr Leu Val Lys Phe Ile Cys  
307 145 150 155 160  
309 Leu Ser Ile Trp Gly Leu Ser Leu Leu Leu Ala Leu Pro Val Leu Leu  
310 165 170 175  
312 Phe Arg Arg Thr Val Tyr Ser Ser Asn Val Ser Pro Ala Cys Tyr Glu  
313 180 185 190  
315 Asp Met Gly Asn Asn Thr Ala Asn Trp Arg Met Leu Leu Arg Ile Leu  
316 195 200 205  
318 Pro Gln Ser Phe Gly Phe Ile Val Pro Leu Leu Ile Met Leu Phe Cys  
319 210 215 220  
321 Tyr Gly Phe Thr Leu Arg Thr Leu Phe Lys Ala His Met Gly Gln Lys



## RAW SEQUENCE LISTING

DATE: 07/12/2000

PATENT APPLICATION: US/09/101,518

TIME: 08:30:41

Input Set : A:\PF218PCT.txt

Output Set: N:\CRF3\07122000\I101518.raw

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325                245                250                255
327 Cys Trp Leu Pro Tyr Asn Leu Val Leu Leu Ala Asp Thr Leu Met Arg
328                260                265                270
330 Thr Gln Val Ile Gln Glu Thr Cys Glu Arg Arg Asn His Ile Asp Arg
331                275                280                285
333 Ala Leu Asp Ala Thr Glu Ile Leu Gly Ile Leu His Ser Cys Leu Asn
334                290                295                300
336 Pro Leu Ile Tyr Ala Phe Ile Gly Gln Lys Phe Arg His Gly Leu Leu
337 305                310                315                320
339 Lys Ile Leu Ala Ile His Gly Leu Ile Ser Lys Asp Ser Leu Pro Lys
340                325                330                335
342 Asp Ser Arg Pro Ser Phe Val Gly Ser Ser Ser Gly His Thr Ser Thr
343                340                345                350
345 Thr
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VERIFICATION SUMMARY

DATE: 07/12/2000

PATENT APPLICATION: US/09/101,518

TIME: 08:30:42

Input Set : A:\PF218PCT.txt

Output Set: N:\CRF3\07122000\I101518.raw

L:349 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9